Claims

[c1]   1. A method for accessing a remote database using a
window program, relating to windowizing SQL syntax for
accessing the remote database, wherein a window pro-
vided by the window program comprises a command list,
a display area, and a SQL instruction area, the remote
database comprises a plurality of data tables, and each
of the data tables comprises a plurality of fields, each of
the fields comprises a plurality of entries, the method for
accessing the remote database using the window pro-
gram comprising:

a user selecting the remote database to be connected
with a connect-to-database function in the command
list;

determining whether the user is authenticated to access
the remote database or not;

permitting the user to select a SQL instruction from the
SQL instruction area as the user is authenticated,
wherein the SQL instruction is displayed in the display
area for further modification, and the SQL instruction
comprises a query type SQL instruction and an edit type
SQL instruction;

the user executing the SQL instruction that has been

modified with an execution function in the command list; and

displaying an execution result obtained from the SQL instruction in the display area.

[c2] 2. The method for accessing the remote database using the window program of claim 1, wherein a connecting function provided by the connect-to-database function is for determining whether the user is authenticated for accessing the remote database or not, the connecting function comprising:

determining whether a user name and a user password of the user are authenticated foraccessing the remote database or not; and

permitting the user to access the remote database if authenticated.

[c3] 3. The method for accessing the remote database using the window program of claim 1, wherein the user accesses a plurality of remote database with the window program.

[c4] 4. The method for accessing the remote database using the window program of claim 1, wherein a plurality of SQL instructions existing in the SQL instruction area comprise a plurality of the SQL instructions in a macro format, and each of the SQL instructions corresponds to

a button for expanding the macro.

[c5] 5. The method for accessing the remote database using the window program of claim 1, wherein the display area comprises a database name display area, a data table display area, a data structure display area, a data display area, and an instruction display area.

[c6] 6. The method for accessing the remote database using the window program of claim 5, wherein the instruction display area is for displaying the SQL instructions obtained from expanding the macro.

[c7] 7. The method for accessing the remote database using the window program of claim 6, wherein a clear function in the command list is for clearing a content of the instruction display area.

[c8] 8. The method for accessing the remote database using the window program of claim 6, wherein a logic operator function in the command list is for inserting a logic operator into the SQL instructions obtained from expanding the macro.

[c9] 9. The method for accessing the remote database using the window program of claim 5, wherein the database name display area is for displaying the remote database name which serves to be connected.

[c10]   10. The method for accessing the remote database using the window program of claim 5, wherein the data table display area is for displaying all the data tables in the remote database.

[c11]   11. The method for accessing the remote database using the window program of claim 5, wherein the data structure display area is for displaying a data structure of the data table.

[c12]   12. The method for accessing the remote database using the window program of claim 5, wherein the data display area is for displaying the data of each of the fields.

[c13]   13. The method for accessing the remote database using the window program of claim 1, wherein an export function in the command list is for displaying and saving an execution result in a file format that is different.

[c14]   14. The method for accessing the remote database using the window program of claim 1, wherein a save function in the command list is for saving the SQL instruction that has been modified into a file.

[c15]   15. The method for accessing the remote database using the window program of claim 14, wherein the user opts to use the SQL instruction again, the SQL instruction that

has been saved and modified is loaded with a load function in the command list.

[c16] 16. A method for accessing a remote database using a window program, relating to windowizing SQL syntax for accessing the remote database, wherein the remote database comprises a plurality of data tables, each of the data tables comprises a plurality of fields, each of the fields comprises a plurality of entries, the method for accessing the remote database using the window program comprising:

providing a window, wherein the window comprises a command list, a display area, and a SQL instruction area, and the display area further comprises a database name display area, a data table display area, a data structure display area, a data display area, and an instruction display area;

the user being permitted to access the remote database as a user is authenticated; and

the user accessing the entries in the remote database with a plurality of functions in the command list, wherein the functions comprise an execution function, an export function, a load function, a save function, a clear function, a field deleting function, a logic operator inserting function, a data table cross reference function, and a data and field searching function.

[c17]   17. The method for accessing the remote database using the window program of claim 16, wherein the user being authenticated comprises authenticating a user name and a user password.

[c18]   18. The method for accessing the remote database using the window program of claim 16, wherein the execution function comprises executing a query type SQL instruction and executing an edit type SQL instruction.

[c19]   19. The method for accessing the remote database using the window program of claim 18, wherein the SQL instruction area comprises a plurality of the SQL instructions comprising the query type SQL instruction and the edit type SQL instruction, and the SQL instructions are in a macro format in the SQL instruction area.

[c20]   20. The method for accessing the remote database using the window program of claim 19, wherein executing the query type SQL instruction comprises:
transmitting the query type SQL instruction to the remote database;
the remote database returning a query result to the window program; and
displaying the query result in the data display area.

[c21]   21. The method for accessing the remote database using

the window program of claim 19, wherein executing the edit type SQL instruction comprises:

transmitting the edit type SQL instruction to the remote database; and

the remote database returning a message related to an execution result to the window.

[c22]   22. The method for accessing the remote database using the window program of claim 16, wherein the export function comprises:

opening an export dialog window, wherein the export dialog window comprises a plurality of file formats;

calling an object of the selected file format as the user selects one of the file formats;

fetching the entries from the remote database; and

displaying the entries in the object of the selected file format.

[c23]   23. The method for accessing the remote database using the window program of claim 16, wherein the load function comprises:

opening a loading dialog window;

the user selecting an old file to be loaded; and

displaying a content of the old file in the instruction display area.

[c24]   24. The method for accessing the remote database using

the window program of claim 16, wherein the save function comprises:

opening a saving dialog window;

the user entering a file name; and

saving a content of the instruction display area in the remote database with the file name.

[c25]   25. The method for accessing the remote database using the window program of claim 16, wherein the clear function is for clearing the content of the instruction display area.

[c26]   26. The method for accessing the remote database using the window program of claim 16, wherein the field deleting function comprises:

the user entering a name of a first data table containing a field and a name of the field in a deleting dialog window for deleting the field,;

building a second data table excluding the field;

deleting the first data table;

building a third data table whose name is identical to the first data table;

copying a content of the second data table to the third data table; and

deleting the second data table.

[c27]   27. The method for accessing the remote database using

the window program of claim 16, wherein the logic operator inserting function comprises:

determining a type of the logic operator selected by the user;

determining an output position; and

placing the logic operator selected by the user to the output position.

[c28] 28. The method for accessing the remote database using the window program of claim 27, wherein the output position is in the instruction display area.

[c29] 29. The method for accessing the remote database using the window program of claim 16, wherein the data table cross reference function comprises:

the user selecting a desirable image in a reference dialog window;

determining an image format of the image; and

loading the image to a default cross reference diagram.

[c30] 30. The method for accessing the remote database using the window program of claim 16, wherein the data searching function comprises:

the user entering a data to be queried in a searching dialog window;

searching for the data entry by entry in the data tables in the remote database; and

if the data is found, taking down the data table containing the data and the field in the searching dialog window as well as displaying the data.

[c31] 31. The method for accessing the remote database using the window program of claim 30, wherein the field searching function comprises:

the user entering a field name to be queried in the searching dialog window;

searching the field one by one in the data tables in the remote database; and

if the field is found, taking down the data table containing the field in the searching dialog window as well as displaying the field.